AUTHOR INDEX TO VOLUME 148

Ablowitz, M.J., S.V. Manakov and C.L. Schultz, On the boundary conditions of the Davey–Stewartson equation 148 (1990) 50
Albanese, C. and R. de Ritis, Conformal equivalence in U_4-scalar field theories 148 (1990) 301
Alicki, R. and W.A. Majewski, On a general characterization of nonlinear quantum dynamical maps 148 (1990) 69
Amaral, L., see M. Behar 148 (1990) 104
Anagnostatos, G.S., Addendum on the unique stability of $CoAr_6^+$ 148 (1990) 291
Annaorazov, M.P., see S.A. Nikitin 148 (1990) 363
Aranson, I.S. and K.E. Beilin, Chaotic dynamics of an envelope soliton coupled to a low-frequency field 148 (1990) 171
Asatryan, K.A., see S.A. Nikitin 148 (1990) 363
Auci, M., A conjecture on the physical meaning of the transversal component of the Poynting vector. II. Bounds of a source zone and formal equivalence between the local energy and the photon 148 (1990) 399

Baltaga, I.V., N.M. Makarov, V.A. Yampol'skii, L.M. Fisher, N.V. Il'in and I.F. Voloshin, Collapse of superconducting current in high-T_c ceramics in alternating magnetic field 148 (1990) 213
Bancewicz, T., W. Głaz and S. Kielich, The dipole–octupole contribution to the Rayleigh wings of gaseous nitrogen 148 (1990) 78
Baryshevsky, V.G., I.Ya. Dubovskaya and O.N. Metelitsa, Mutual focusing of an electron beam and an electromagnetic wave in a free electron laser 148 (1990) 272
Basu, C., see C.L. Roy 148 (1990) 107
Bates, J.C., see F. Tervisidis 148 (1990) 20
Baumgartner, B., Relations between ground state properties and level spacing 148 (1990) 443
Behar, M., L. Amaral, J.R. Kaschny and F.C. Zawislak, Low temperature diffusion study of Xe implanted into a photoresist film 148 (1990) 104
Beilin, K.E., see I.S. Aranson 148 (1990) 171
Beilinson, M.M., see S.I. Fisenko 148 (1990) 405
Ben-Jacob, E., see J.L. Cohn 148 (1990) 110
Berezhiani, V.I. and I.G. Murusidze, Relativistic wake-field generation by an intense laser pulse in a plasma 148 (1990) 338
Bhattacharyya, S.P., see P. Dutta 148 (1990) 331
Boileau, A. and J.-L. Lachambre, Density fluctuations dispersion measurement in the Tokamak de Varennes 148 (1990) 341

Cataldo, H.M., Holomorphy of the Fourier transformed memory kernel in the quantum Langevin equation 148 (1990) 246
Chen, Y.J., The hierarchy formalism of the fractional quantum Hall states: Haldane's scheme versus composite fermion approach 148 (1990) 475
Chinen, S. and K. Okada, Current distribution in a spatially nonuniform rf discharge 148 (1990) 351
Cohn, J.L., E. Ben-Jacob and C. Uher, Low-temperature electronic transport and the Coulomb blockade in oxidized films of bismuth 148 (1990) 110

Comay, E., Unphysical properties of a new equation of classical charges 148 (1990) 295

Date, E., M. Jimbo, K. Miki and T. Miwa, *R* matrix for cyclic representations of $U_q(\hat{\mathfrak{sl}}(3, \mathbb{C}))$ at $q^3=1$ 148 (1990) 45
De Miguel, E., see J.J. Morales 148 (1990) 408
Deprit, A. and S. Ferrer, Comment on "Classical Hamiltonian systems and stochastic mechanics" 148 (1990) 412
De Ritis, R., see C. Albanese 148 (1990) 301
Dewey, D., see C.N. Man 148 (1990) 8
Dolgopolov, V.T., see N.B. Zhitenev 148 (1990) 225
Droz, M. and L. Frachebourg, Damage spreading in cellular automata models of non-equilibrium phase transitions 148 (1990) 447
Druzhinin, O.A. and A.S. Mikhailov, Regular and chaotic spatial patterns in a coupled map lattice 148 (1990) 429
Dubovskaya, I.Ya., see V.G. Baryshevsky 148 (1990) 272
Dutta, P. and S.P. Bhattacharyya, A new strategy for the calculation of configuration interaction wavefunctions: direct search involving Metropolis simulated annealing 148 (1990) 331
Dzyub, I.P. and Yu.E. Zerov, Non-adiabatic effects in the electron and phonon spectra of a Peierls insulator 148 (1990) 207

Felber, S., see R. Golub 148 (1990) 27
Ferrer, S., see A. Deprit 148 (1990) 412
Filatrella, G., G. Rotoli and R.D. Parmentier, Phase locking of fluxon oscillations in long Josephson tunnel junctions with surface losses 148 (1990) 122
Fisenko, S.I., M.M. Beilinson and B.G. Umanov, Some notes on the concept of "strong" gravitation and possibilities of its experimental investigation 148 (1990) 405
Fisher, L.M., see I.V. Baltaga 148 (1990) 213
Frachebourg, L., see M. Droz 148 (1990) 447
Friedlander, S. and M.M. Vishik, Lax pair formulation for the Euler equation 148 (1990) 313

Gaeta, G., Phase transitions with nonvanishing order parameter and Landau theory 148 (1990) 98
Gagnon, L., Similarity properties and nonlinear effects on optical precursors 148 (1990) 452
Gähler, R., see R. Golub 148 (1990) 27
Garazo, A.N., see S.M. Kurcbart 148 (1990) 53
Gladkov, S.O., Microscopic theory of combustion of solid fuel 148 (1990) 253
Głaz, W., see T. Bancewicz 148 (1990) 78
Golub, R., S. Felber, R. Gähler and E. Gutsmiedl, A modest proposal concerning tunneling times 148 (1990) 27
Golubev, D.S. and A.D. Zaikin, Effect of external circuit on charge dynamics of ultrasmall Josephson junctions 148 (1990) 479
Gonchakova, N.N., see S.A. Govorkov 148 (1990) 377
Govorkov, S.A., N.N. Gonchakova and V.A. Tulin, IR absorption spectra of Y–Ba–Cu–O films 148 (1990) 377
Grassberger, P., An optimized box-assisted algorithm for fractal dimensions 148 (1990) 63
Grün, N., see P. Zimmerer 148 (1990) 457
Gutsmiedl, E., see R. Golub 148 (1990) 27

Hammel, S.M., A noise reduction method for chaotic systems 148 (1990) 421
Harith, M.A., see V. Palleschi 148 (1990) 345
Herrera, L., Physical and unphysical properties of the equations of classical charges: a reply to a paper by E. Comay 148 (1990) 299
Hofmann, U., see M.L. Kulić 148 (1990) 372

Iafrate, G.J., see J.B. Krieger 148 (1990) 470
Il'in, N.V., see I.V. Baltaga 148 (1990) 213
Ivanov, A.G. and L.T. Tsymbal, Ultrasonic study of thermal elasticity in granular RBCO (R=Y, Gd) compounds 148 (1990) 131

Jain, V.K. and N.L. Tsintsadze, Electron beam acoustic and magneto-acoustic modes in a magnetized beam–plasma system 148 (1990) 269
Janke, W., Test of single cluster update for the three-dimensional XY model 148 (1990) 306
Jia, Y.Q., see M.Z. Jin 148 (1990) 217
Jiang, Z., The ZS–AKNS inverse scattering transform with poles of multiple orders 148 (1990) 57
Jimbo, M., see E. Date 148 (1990) 45
Jin, M.Z., X.W. Liu, M.L. Liu and Y.Q. Jia, Electric field gradient at the Eu nucleus in $EuBa_2Cu_3O_{7-x}$ around the superconducting transition temperature 148 (1990) 217

Kaschny, J.R., see M. Behar 148 (1990) 104
Kashintzev, D.M., see O.A. Pankratov 148 (1990) 489
Kawakami, N. and S.-K. Yang, Luttinger anomaly exponent of momentum distribution in the Hubbard chain 148 (1990) 359
Keller, J., see M.L. Kulić 148 (1990) 372
Khaliullin, G.G., see B.P. Vodop'yanov 148 (1990) 221
Khizhnyak, N.A., see A.V. Shchagin 148 (1990) 485
Kielich, S., see T. Bancewicz 148 (1990) 78
Kiselev, S.A., Stationary vibrational modes of a chain of particles interacting via an even order potential 148 (1990) 95
Kiselev, S.A. and V.I. Rupasov, Stationary vibrational modes of a polyatomic chain of particles interacting via an even order potential 148 (1990) 355
Kolovsky, A.R., Stationary response of a multilevel quantum system in the regime of quantum chaos 148 (1990) 72
Kondratiev, N.A., G.I. Kotliarevskii, V.I. Smetanin and Yu.P. Surikov, Conductivity of a plasma channel produced in a gaseous medium by a high-current relativistic electron beam 148 (1990) 89
Konoplev, V.A., see Vl.K. Pershin 148 (1990) 275
Kotliarevskii, G.I., see N.A. Kondratiev 148 (1990) 89
Krasil'nikov, V.V. and Yu.M. Poluehktov, Fermi-liquid description and Ginsburg–Landau equations of two-band superconductors 148 (1990) 285
Krieger, J.B., Y. Li and G.J. Iafrate, Exact relations in the optimized effective potential method employing an arbitrary $E_{xc}[\{\psi_{i\sigma}\}]$ 148 (1990) 470
Kügerl, G. and F. Schürrer, Energy conservation and H-theorem in the scalar nonlinear Boltzmann equation and in its multigroup representation 148 (1990) 158
Kulić, M.L., J. Keller, U. Hofmann and W. Zhang, Narrowing and splitting of bands in the two-band Hubbard model for high T_c superconductors 148 (1990) 372

Kurcbart, S.M., M.A. Manna, J.G. Pereira and A.N. Garazo, Shallow viscous fluid heated from below and the Kadomtsev–Petviashvili equation 148 (1990) 53

Lachambre, J.-L., see A. Boileau 148 (1990) 341
Łapeta, A., see M. Szydłowski 148 (1990) 239
Lee, C.R., The Feynman–Dyson proof of the gauge field equations 148 (1990) 146
Lei, X.L., Absence of noncanonical modification in the balance equation theory of resistivity 148 (1990) 384
Lesche, B., Numerical study of the second harmonic Stark effect and related phenomena 148 (1990) 84
Li, F. and S. Wang, Theoretical study of the preparation of a strong squeezed field state in a high-Q cavity and an atom interacting with the squeezed field 148 (1990) 320
Li, Y., see J.B. Krieger 148 (1990) 470
Li, Z., see Y. Ma 148 (1990) 134
Liñares, J., Maxwell optical solitons in inhomogeneous media 148 (1990) 31
Lisitsa, M.P., R.A. Taratuta and A.M. Yaremko, Nonlinear phenomena and multiphoton transitions in the exciton region of a spectrum 148 (1990) 204
Liu, M.L., see M.Z. Jin 148 (1990) 217
Liu, X.W., see M.Z. Jin 148 (1990) 217

Ma, Y. and Z. Li, Phase diagrams of the quantum Sherrington–Kirkpatrick Ising spin glass in a transverse field 148 (1990) 134
Mahanty, J., see M. Tsukada 148 (1990) 369
Majewski, W.A., see R. Alicki 148 (1990) 69
Makarov, N.M., see I.V. Baltaga 148 (1990) 213
Man, C.N., D. Shoemaker, M. Pham Tu and D. Dewey, External modulation technique for sensitive interferometric detection of displacements 148 (1990) 8
Manakov, S.V., see M.J. Ablowitz 148 (1990) 50
Manna, M.A., see S.M. Kurcbart 148 (1990) 53
Marra, R., Probabilistic approach to the Navier–Stokes equation 148 (1990) 41
Mashhoon, B., see H. Quevedo 148 (1990) 149
Maslov, V.I., The influence of wave-trapped particles on the intensity of a three-wave interaction 148 (1990) 267
Mazov, L.S., Anomalous Hall effect and the nature of charge carriers in high-T_c superconductors 148 (1990) 115
Medvedev, B.K., see N.B. Zhitenev 148 (1990) 225
Metelitsa, O.N., see V.G. Baryshevsky 148 (1990) 272
Mikhailov, A.S., see O.A. Druzhinin 148 (1990) 429
Miki, K., see E. Date 148 (1990) 45
Miwa, T., see E. Date 148 (1990) 45
Mohan, M. and V. Prasad, Collisional excitation transfer between atoms in the presence of a laser field 148 (1990) 327
Mokerov, V.G., see N.B. Zhitenev 148 (1990) 225
Morales, J.J., M.J. Nuevo, L.F. Rull and E. de Miguel, The effect of dimensionality on Brownian motion 148 (1990) 408
Mufti, A., see H.A. Schmitt 148 (1990) 139
Murtaza, G., see H. Saleem 148 (1990) 263
Murusidze, I.G., see V.I. Berezhiani 148 (1990) 338
Myalikgulyev, G., see S.A. Nikitin 148 (1990) 363

Nazarov, N.U. and O.A. Ponomarev, Memory kernel in quantum theory of electron–phonon systems 148 (1990) 35
Nikitin, S.A., G. Myalikgulyev, A.M. Tishin, M.P. Annaorazov, K.A. Asatryan and A.L. Tyurin, The magnetocaloric effect in $Fe_{49}Rh_{51}$ compound 148 (1990) 363
Nuevo, M.J., see J.J. Morales 148 (1990) 408

Okada, K., see S. Chinen 148 (1990) 351
Olver, P.J., Canonical forms and integrability of bi-Hamiltonian systems 148 (1990) 177
Onofrio, R., Quantum non-demolition stroboscopic observables and multipumping back-action evasion schemes 148 (1990) 1

Palleschi, V., M.A. Harith, G. Salvetti, D.P. Singh and M. Vaselli, A plasma model of the process of cold nuclear fusion in metals 148 (1990) 345
Pankratov, O.A. and D.M. Kashintzev, "Zero modes" in a two-dimensional multivalley electron gas and magnetic susceptibility of graphite intercalation compounds 148 (1990) 489
Parmentier, R.D., see G. Filatrella 148 (1990) 122
Pereira, J.G., see S.M. Kurcbart 148 (1990) 53
Pershin, Vl.K. and V.A. Konoplev, On molecular flexibility and catastrophes 148 (1990) 275
Pham Tu, M., see C.N. Man 148 (1990) 8
Plekhanov, V.G., Phonons in mixed $LiH_{1-x}D_x$ crystals 148 (1990) 281
Poluehktov, Yu.M., see V.V. Krasil'nikov 148 (1990) 285
Ponomarev, O.A., see N.U. Nazarov 148 (1990) 35
Prasad, V., see M. Mohan 148 (1990) 327
Pristupa, V.I., see A.V. Shchagin 148 (1990) 485

Quevedo, H. and B. Mashhoon, Exterior gravitational field of a charged rotating mass with arbitrary quadrupole moment 148 (1990) 149

Raghavacharyulu, I.V.V., Unified Feynman–Wiener path integrals 148 (1990) 393
Rakhecha, V.C., see A.G. Wagh 148 (1990) 17
Rambaut, M. and J.P. Vigier, Ampère forces considered as collective non-relativistic limit of the sum of all Lorentz interactions acting on individual current elements: possible consequences for electromagnetic discharge stability and tokamak behaviour 148 (1990) 229
Rotoli, G., see G. Filatrella 148 (1990) 122
Roy, C.L. and C. Basu, On the occurrence of band gaps in one-dimensional disordered systems 148 (1990) 107
Rozentuller, B.V., S.V. Stepanov, M.M. Shabarchina and A.I. Tsapin, SHF absorption in low magnetic fields in Mn–V–Mo oxide systems: possible new type of high-temperature superconductor 148 (1990) 119
Rull, L.F., see J.J. Morales 148 (1990) 408
Rupasov, V.I., see S.A. Kiselev 148 (1990) 355

Saleem, H. and G. Murtaza, Electromagnetic radiation generation in an inhomogeneous magnetized plasma 148 (1990) 263
Salvetti, G., see V. Palleschi 148 (1990) 345
Scheid, W., see P. Zimmerer 148 (1990) 457
Schmitt, H.A. and A. Mufti, Path integral formalism for the coherent states of the compact orthosymplectic supergroup Osp(1/2) 148 (1990) 139

Schultz, C.L., see M.J. Ablowitz 148 (1990) 50
Schürrer, F., see G. Kügerl 148 (1990) 158
Shabarchina, M.M., see B.V. Rozentuller 148 (1990) 119
Shchagin, A.V., V.I. Pristupa and N.A. Khizhnyak, A fine structure of parametric X-ray radiation from relativistic electrons in a crystal 148 (1990) 485
Shen, H., see J. Wu 148 (1990) 127
Shoemaker, D., see C.N. Man 148 (1990) 8
Shurygin, V.Yu., R.M. Yulmetyev and V.V. Vorobjev, Physical criterion of the degree of non-Markovity of relaxation processes in liquids 148 (1990) 199
Sieber, M. and F. Steiner, Quantum chaos in the hyperbola billiard 148 (1990) 415
Silverman, M.P., Two-solenoid Aharonov–Bohm experiment with correlated particles 148 (1990) 154
Singh, C.A., S.B. Singh and K.D. Singh, Quantum mechanical sextic anharmonic oscillators: normalisability of wavefunctions and some exact eigenvalues 148 (1990) 389
Singh, D.P., see V. Palleschi 148 (1990) 345
Singh, K.D., see C.A. Singh 148 (1990) 389
Singh, S.B., see C.A. Singh 148 (1990) 389
Smetanin, V.I., see N.A. Kondratiev 148 (1990) 89
Squires, E.J., How long does it take to make a measurement? 148 (1990) 381
Steiner, F., see M. Sieber 148 (1990) 415
Stepanov, S.V., see B.V. Rozentuller 148 (1990) 119
Stone, E.F., Power spectra of the stochastically forced Duffing oscillator 148 (1990) 434
Surikov, Yu.P., see N.A. Kondratiev 148 (1990) 89
Szydłowski, M. and A. Łapeta, Pseudo-Riemannian manifold of mixmaster dynamical systems 148 (1990) 239

Taratuta, R.A., see M.P. Lisitsa 148 (1990) 204
Tervisidis, F., N. Tsagas and J.C. Bates, Filling characteristics of a neutron bottle 148 (1990) 20
Tishin, A.M., see S.A. Nikitin 148 (1990) 363
Tsagas, N., see F. Tervisidis 148 (1990) 20
Tsapin, A.I., see B.V. Rozentuller 148 (1990) 119
Tsintsadze, N.L., see V.K. Jain 148 (1990) 269
Tsukada, M. and J. Mahanty, A mechanism for Coulomb blockade in scanning tunneling spectroscopy 148 (1990) 369
Tsymbal, L.T., see A.G. Ivanov 148 (1990) 131
Tulin, V.A., see S.A. Govorkov 148 (1990) 377
Tyurin, A.L., see S.A. Nikitin 148 (1990) 363

Uher, C., see J.L. Cohn 148 (1990) 110
Umanov, B.G., see S.I. Fisenko 148 (1990) 405

Vaselli, M., see V. Palleschi 148 (1990) 345
Vigier, J.P., see M. Rambaut 148 (1990) 229
Vishik, M.M., see S. Friedlander 148 (1990) 313
Vodop'yanov, B.P. and G.G. Khaliullin, Universal long-time relaxation of nuclear spins in a disordered conductor 148 (1990) 221
Voloshin, I.F., see I.V. Baltaga 148 (1990) 213
Vorobjev, V.V., see V.Yu. Shurygin 148 (1990) 199

Wagh, A.G. and V.C. Rakhecha, Geometric phase in neutron interferometry 148 (1990) 17
Wang, S., see F. Li 148 (1990) 320
Wang, Y., see J. Wu 148 (1990) 127
Winter, H., Threshold in excitation of NaI by grazing ion surface scattering 148 (1990) 258
Woźniak, S., Circular intensity difference scattering (CIDS) due to reorientational processes of optically inactive molecules in dc electric field 148 (1990) 188
Wu, J., Y. Wang, H. Shen, J. Zhu, Y. Yan and Z. Zhao, Ultrasonic study of the soft phonon mode in $Bi_2Sr_2Ca_1Cu_2O_8$ single crystals 148 (1990) 127

Yampol'skii, V.A., see I.V. Baltaga 148 (1990) 213
Yan, Y., see J. Wu 148 (1990) 127
Yang, S.-K., see N. Kawakami 148 (1990) 359
Yaremko, A.M., see M.P. Lisitsa 148 (1990) 204
Yee, E., Evidence for an inhomogeneous strange and chaotic attractor in passive scalar concentration fluctuations in relative turbulent diffusion 148 (1990) 164
Yulmetyev, R.M., see V.Yu. Shurygin 148 (1990) 199

Zaikin, A.D., see D.S. Golubev 148 (1990) 479
Zanette, D.H., Tjon effect for a gas diffusing in a background 148 (1990) 37
Zawislak, F.C., see M. Behar 148 (1990) 104
Zerov, Yu.E., see I.P. Dzyub 148 (1990) 207
Zhang, C., Hopping rate of localized defects interacting with two-dimensional electron systems in a magnetic field 148 (1990) 193
Zhang, W., see M.L. Kulić 148 (1990) 372
Zhao, Z., see J. Wu 148 (1990) 127
Zheng, X.-H., Quantitative analysis for ball lightning 148 (1990) 463
Zhitenev, N.B., V.T. Dolgopolov, B.K. Medvedev and V.G. Mokerov, Edge character of charge spreading during Hall potential difference evolution in a 2D electron system 148 (1990) 225
Zhu, J., see J. Wu 148 (1990) 127
Zimmerer, P., N. Grün and W. Scheid, Auger rates for dielectronic recombination cross sections with highly charged relativistic heavy ions 148 (1990) 457